## UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO. 7,485,312 Page 1 of 2

APPLICATION NO.: 10/561,343

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INVENTOR(S): Udo Krupka

It is hereby certified that an error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In the Drawings, delete Sheet 6 of 6 in its entirety and insert substitute drawing Sheet 6 as per attached.

MAILING ADDRESS OF SENDER

U.S. Patent

160 180 8 170 140 > > >> 40 ××  $\vdash$ ტ ტ 00 E4 E4 O O variant HDB 11 aa sequence: wild-type ayw2 aa sequence: [I, [I, S S **⊢ ≃**I >> ∢ ∢ 20 OZ ≥ ≥ 그그 o >I 4 4 S S ココ > > **S** S ∞ < သလ ZΖ ココ လလ 24 ≱≽ 00 S S 33 22 4  $\vdash$ A A တလ 50 **14 14** ᆸᅱ OH 00 24 24 44 4 4  $\vdash$ 44 S S ᄺᆮ ပပ S S >>  $\vdash$ zz4 4 ≥ ≥ A P цΗ 9 υO ДД шш HH  $\vdash$ Z m ഗ ഗ ≥ ≥ R K(R) ココ O O **P P** U U XX [<u>\_\_\_\_\_\_\_</u> 00 191 121 141 101

The following as are substituted (x) in the HDB 11 variant as compared with the HBV ayw2 wild M 103 (I), S 114 (A), T 115 (I), T 116 (N), S 117 (N), T 118 (R), P 120 (Q), P 127 (T), Q 129 (H) V 96 (A) (not in the region of the a determinant),

and S 136 (Y) (all in region of the a determinant)